

## 03060106-110

(Savannah River)

### General Description

Watershed 03060106-110 is located in Aiken, Barnwell, and Allendale Counties and consists primarily of the **Savannah River** and its tributaries from Upper Three Runs to Lower Three Runs. The watershed occupies 88,035 acres of the Sand Hills, Upper Coastal Plain, and Lower Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Fuquay-Dothan-Troup series. The erodibility of the soil (K) averages 0.15, and the slope of the terrain averages 3%, with a range of 0-10%. Land use/land cover in the watershed includes: 58.6% forested land, 21.7% forested wetland, 9.9% barren land, 4.9% agricultural land, 1.6% urban land, 2.0% water, and 1.3% nonforested wetland.

This section of the Savannah River accepts drainage from its upper reaches (03060103 and 03060106-050), together with Beaverdam Creek, Fourmile Branch, Beaverdam Creek\*, Pen Branch (Indian Grave Branch), and Little Beaverdam Creek\*. An asterisk connotes a stream entering from the Georgia side of the river. Steel Creek (L-Lake, Meyers Branch) enters the river next, followed by Boggy Gut Branch, Brier Branch (The Bay), Swift Gut, Sweetwater Creek\*, Little Sweetwater Creek\*, and Cator Hall Lake. There are a total of 150.0 stream miles and 164.8 acres of lake waters within the South Carolina portion of the watershed, all classified FW.

### Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
SV-326	P	FW	FOURMILE BRANCH AT SRS ROAD A-7
SV-327	P	FW	STEEL CREEK AT SRS ROAD A

**Fourmile Creek (SV-326)** - Aquatic life uses are fully supported; however, there is a significant increasing trend in total phosphorus concentration. There is also a significant decreasing trend in pH. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are partially supported due to fecal coliform bacteria excursions.

**Steel Creek (SV-327)** - Aquatic life uses are fully supported; however, there is a significant increasing trend in total phosphorus concentration. There is also a significant decreasing trend in pH. A significant increasing trend in dissolved oxygen concentration and significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentration suggest improving conditions for these parameters. Recreational uses are fully supported; however, there is a significant increasing trend in fecal coliform bacteria concentration.

*A fish consumption advisory has been issued by the Department for mercury and includes the Savannah River within this watershed (see advisory p.107).*

## NPDES Program

### Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD)</i>	<i>NPDES# TYPE COMMENT</i>
INDIAN GRAVE BRANCH USDOE WESTINGHOUSE SRS PIPE #: K18 FLOW: 0.42 PIPE #: K06 FLOW: 0.011 PIPE #: K08 FLOW: M/R PIPE #: K12 FLOW: 0.024	SC0000175 MAJOR INDUSTRIAL
SAVANNAH RIVER SWAMP USDOE WESTINGHOUSE SRS PIPE #: X8C FLOW: 0.097	SC0000175 MAJOR INDUSTRIAL
BEAVERDAM CREEK USDOE WESTINGHOUSE SRS PIPE #: D1A FLOW: 0.0035	SC0000175 MAJOR INDUSTRIAL
BEAVERDAM CREEK SCE&G/SRS D-AREA POWER HOUSE PIPE #: D01 FLOW: 54.35 PIPE #: D03 FLOW: 0.023 PIPE #: D06 FLOW: 0.111	SC0047431 MAJOR INDUSTRIAL
FOURMILE BRANCH TRIBUTARY USDOE WESTINGHOUSE SRS PIPE #: H12 FLOW: 0.49 PIPE #: F08 FLOW: 1.53 PIPE #: H08 FLOW: 0.66	SC0000175 MAJOR INDUSTRIAL
FOURMILE BRANCH USDOE WESTINGHOUSE SRS PIPE #: G10 FLOW: 1.05	SC0000175 MAJOR INDUSTRIAL
L-LAKE USDOE WESTINGHOUSE SRS PIPE #: L07 FLOW: 41.7 PIPE #: L7A FLOW: 0.035	SC0000175 MAJOR INDUSTRIAL

## Nonpoint Source Management Program

### Land Disposal Activities

#### Landfill Activities

<i>SOLID WASTE LANDFILL NAME FACILITY TYPE</i>	<i>PERMIT # STATUS</i>
SRS STEAMLINE INDUSTRIAL	IWP-210 INACTIVE
SRS 200-H SITE INDUSTRIAL	IWP-211 INACTIVE

## **Growth Potential**

There is a moderate potential for growth in this watershed, which contains the Savannah River Site. The Savannah River Site, which covers the majority of the watershed, employs 25,000 people from nearby counties and is responsible for the overall growth in proximity to the site.